

REMARKS

The Office Action of November 6, 2003, has been carefully reviewed, and this paper is responsive thereto. Reconsideration and allowance are respectfully requested. Claims 1-6, 8, and 23-29 are now pending. By this Amendment, claims 7 and 9-22 are canceled without prejudice or disclaimer, claim 1 is amended, and new claims 23-29 are added.

The Office Action states that the title of the invention is not descriptive. Applicants have amended the title in a manner similar to that suggested by the Examiner. It should be noted, however, that the amendment to the title does not reflect upon the limitations of all the pending claims.

Claims 1-3, 9, 10, 13, 15-17, 19, and 20 are rejected under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent No. 5,589,893 to Gaugham et al. ("Gaugham"). Claims 4, 11, and 18 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Gaugham. Claims 5, 6, 8, 12, and 21 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Gaugham in view of U.S. Patent No. 5,327,528 to Hidaka et al. ("Hidaka"). Claims 7, 14, and 22 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Gaugham in view of U.S. Patent No. 5,185,597 to Pappas et al. ("Pappas").

Claim 1 is amended only to incorporate all of the features recited in now-canceled claim 7. Claim 1 as amended recites, *inter alia*, reporting to a data input device having a display, at a reporting time, a predetermined portion of the amount of the movement in a first direction; and reporting, in at least one subsequent reporting step, a remainder of the

amount of the movement in the first direction, wherein an amount of time between report times is no larger than an amount of time between refreshes of the display.

As the Office Action concedes, Gaugham fails to teach or suggest that the amount of time between report times is no larger than an amount of time between refreshes of a display. Pappas also fails to teach or suggest what is missing from Gaugham. Contrary to the Office Action's assertion, Pappas does not teach or suggest synchronizing the cursor and display refresh rates. Col. 2, Ins. 35-45 of Pappas merely discloses that the refresh rate of a display should be 60 Hz to avoid flicker. In Pappas, refreshing the display is to write the frame buffer on to the display. The frame buffer in Pappas contains a bit map of the entire screen to be displayed. Although the screen to be displayed may include a cursor among other display elements, there is nothing in Pappas that compares movement amount report intervals with the display refresh rate.

Indeed, the proposed combination of Gaugham and Pappas would, at best, result in the system of Gaugham having a display refresh rate of 60 Hz.

Accordingly, neither Gaugham nor Pappas, either alone or in combination, teach or suggest that an amount of time between report times is no larger than an amount of time between refreshes of a display, as required by claim 1.

As to claims 5 and 6, Hidaka also fails to teach or suggest the above-mentioned feature missing from Gaugham and Pappas. Any combination of Gaugham, Pappas, and/or Hidaka would likewise fails to teach or suggest this feature.

Claims 2-4 and 8, which depend from claim 1, are also allowable for at least those reasons that claim 1 is allowable, and further in view of the additional features recited therein.

New claims 23-29 are also allowable over the art of record. None of the art of record teaches or suggests the apparatus as recited in independent claim 23, including, for example, an output configured to output second data representing a series of smaller movement amounts, the number of smaller movement amounts output per original movement amount being variable.

Also, none of the art or record teaches or suggests the method as recited in independent claim 25, including, for example, outputting second data representing a series of smaller movement amounts, the number of smaller movement amounts output per original movement amount being variable.

Also, none of the art of record teaches or suggests the apparatus recited in independent claim 27 including, for example, an output configured to output second data representing a series of smaller movement amounts to a computer having a display, the second data being output at a reporting rate that is asynchronous with a refresh rate of the display.

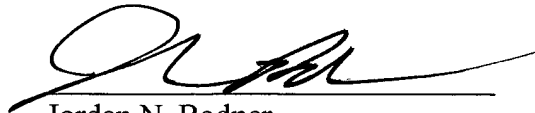
Also, none of the art of record teaches or suggests the apparatus recited in independent claim 28 including, for example, an input configured to receive first data representing a series of original movement amounts of a pointing device; a processor configured to partition the original movement amounts into smaller movement amounts;

and a universal serial bus (USB) output configured to output second data representing a series of the smaller movement amounts.

Also, none of the art of record teaches or suggests the apparatus recited in independent claim 29 including, for example, an output configured to output second data representing a series of smaller movement amounts at a second regular interval to a computer having a display, the display being refreshed at a third regular interval, the second regular interval being shorter than the first and third regular intervals, the first regular interval being longer than the third regular interval.

Applicant submits that the present application is in condition for allowance, and notification of the same is respectfully requested. Should the Examiner feel that a telephone call would expedite prosecution, the Examiner is invited to contact the undersigned at the number below.

Respectfully submitted,



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